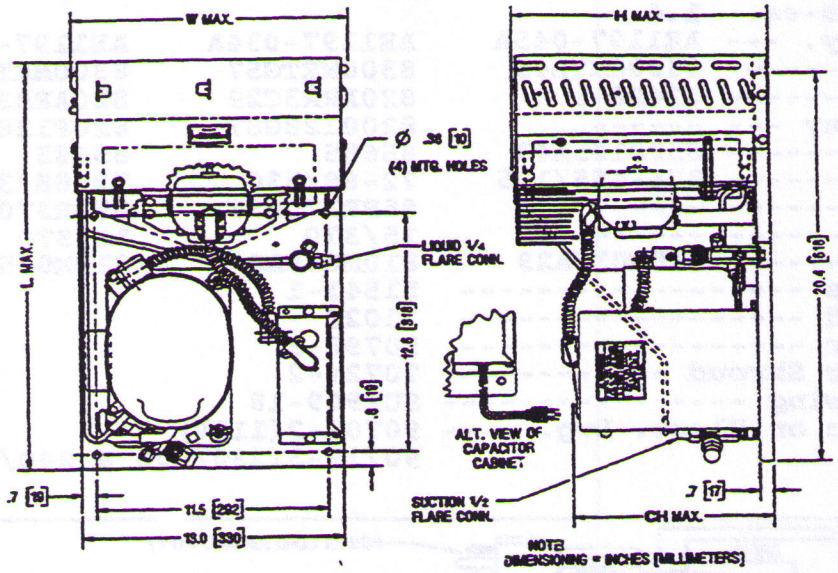
# TECUMSEH HERMETIC CONDENSING UNITS

Date: 9-5-95

## MODEL AKA9446E**XA (Formerly AK9446EA) R-22 1/2HP AIR COOLED




| Model | Dimensions | | | | *Line Connection | | Pumpdown 90 ° F 90% Full | Air CFM | Oil Chg oz. | Gr. Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|
| | L | W | H | CH | Suct. | Liq. | | | | |
| AKA9446E**XA | 20.6 | 13.9 | 13.2 | 10.0 | 1/2 F | 1/4 F | — | 600 | 15 | 70 |

*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - **MUST BE EVACUATED** 60 HZ Performance

| Approved Evap. Range | | Ambient | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 90° F | | | 100° F | | | 110° F | | |
| °F | PSIG | BTUH | Watts | Head | BTUH | Watts | Head | BTUH | Watts | Head |
| -10 | 16.5 | 1800 | 510 | 195 | 1450 | 440 | 220 | — | — | — |
| -5 | 20.0 | 2200 | 560 | 200 | 1800 | 540 | 225 | 1400 | 525 | 255 |
| 0 | 24.0 | 2600 | 600 | 210 | 2200 | 590 | 235 | 1750 | 580 | 265 |
| 5 | 28.2 | 3050 | 620 | 215 | 2600 | 640 | 245 | 2150 | 630 | 270 |
| 10 | 32.8 | 3500 | 690 | 225 | 3100 | 690 | 250 | 2600 | 690 | 280 |
| 15 | 37.7 | 4050 | 730 | 235 | 3550 | 735 | 260 | 3100 | 740 | 295 |
| 20 | 43.0 | 4600 | 780 | 245 | 4100 | 780 | 275 | 3600 | 795 | 305 |
| 25 | 48.8 | 5150 | 820 | 255 | 4600 | 835 | 285 | 4100 | 850 | 320 |
| 30 | 54.8 | 5700 | 870 | 265 | 5150 | 890 | 295 | 4700 | 915 | 330 |
| 35 | 61.5 | 6300 | 920 | 280 | 5700 | 940 | 310 | 5200 | 970 | 345 |
| 40 | 68.5 | 6900 | 965 | 290 | 6350 | 1000 | 325 | 5800 | 1030 | 360 |
| 45 | 76.0 | 7600 | 1020 | 305 | 6900 | 1050 | 335 | 6200 | 1090 | 370 |

Return gas temp. 20 ° F max superheat above 20 ° F evap
40 ° F max below 20 ° F evap. 5 ° F subcooling

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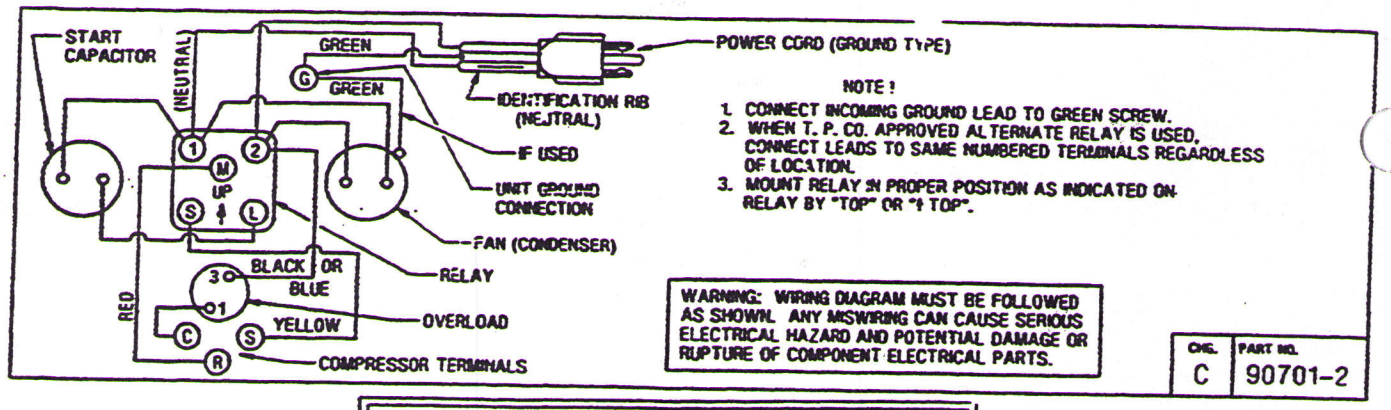
| SPECIFICATIONS | AKA9446EXAXA | AKA9446EXDXA | AKA9446EXCXA |
|---|---|---|---|
| Nominal Voltage | 115-60-1 | 230/208-60-1 | 240/220-50-1 |
| Unit B/M | 2C204-1 | 2C205-1 | 2C223-1 |
| Voltage Range | 126.5 to 103.5 | 253 to 187 | 264 to 198 |
| Min. Circuit Ampacity | 12.4 | 6.1 | 4.9 |
| Max. Fuse Size (Amps) | 20 | 15 | 15 |
| Compressor Model | AKA9442EXA | AKA9442EXD | AKA9442EXC |
| Bill of Material | AK165AT-035-P2 | AK165ET-035-P2 | AK165JT-035-P2 |
| RLA/LRA | 8.8/58.8 | 4.3/31.0 | 3.5/26.0 |
| RLA-Fan Motors-ea. | 1.4 | | |
| Cap. Cab. Assy. | AE1197-045A | AE1197-034A | AE1197-035A |
| Overload | 8300CRTL45 | 8300MRTG57 | 8300MRTL94 |
| Relay | 82498-1 | 820ARR3C29 | 820ARR3E39 |
| Alt. Relay | ------ | 8200128G87 | 820F128H01 |
| Cap. Start | 85PS125A43 | 85685 | 85685 |
| Rating | 378-455/125 | 72-88/330 | 72-88/330 |
| Cap. Run | ------ | 85PR370E36 | 85PR37QE36 |
| Rating | ------ | 15/370 | 15/370 |
| Fan Motor | 810M035A29 | 810M035A28 | 810M035A30 |
| Fan Blade | | 51541-1 | |
| Fan Guard | | 71020 | |
| Condenser | | 50798-2 | |
| Condenser Shroud | | 70724-2 | |
| Unit Drawing | | SU1909-18 | |
| Schematic or Elect. Dwg. | | 90701-2 (115V) | |
| | | 90719-3 (230/208 & 240/220) | |


START CAPACITOR
(NEUTRAL)
GREEN
G
GREEN
POWER CORD (GROUND TYPE)
IDENTIFICATION RIB (NEUTRAL)
IF USED
UNIT GROUND CONNECTION
FAN (CONDENSER)
RELAY
OVERLOAD
COMPRESSOR TERMINALS
BLACK OR BLUE
YELLOW
RED
NOTE !
1. CONNECT INCOMING GROUND LEAD TO GREEN SCREW.
2. WHEN T. P. CO. APPROVED ALTERNATE RELAY IS USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
3. MOUNT RELAY IN PROPER POSITION AS INDICATED ON RELAY BY "TOP" OR "↑ TOP".
WARNING: WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.
CHG. C
PART NO. 90701-2